

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

October 29, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-100413, issued to SENECA-UPSHUR PETROLEUM, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654

Chief

James Martin

Operator's Well No: MCDANIEL #2 (2-S-184-CH)

Farm Name: WENTZ, WILLIAM H. & EDITH N

API Well Number: 47-100413

Permit Type: Plugging
Date Issued: 10/29/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date 9/12	, 2013
2) Operator's	0):
Well No. McDaniel #2	
3) API Well No. 47-001	- 00413

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liquid	d injection / Waste disposal/
	No. 100	derground storage) Deep/ ShallowX
5)	Location: Elevation 1530'	Watershed Stewarts Run
0 /	District Elk 03	County Barbour O Quadrangle Phillipi 7.5' 545
6)	Seneca-Upshw Petroleum, LLC Well Operator PDC Mountaineer LLC	7) Designated Agent Jamie Haga
0,	Address 120 Genesis Blvd	Address 120 Genesis Blvd
	Bridgeport WV 26330	Bridgeport WV 26330
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor
	Name Bryan Harris	Name Hydrocarbon Well Service
	Address P.O Box 157	Address Drawer 995
	Volga WV 26238	Buckhannon WV 26201
	If severed will set cement plug 50' bel Set cement plug from 200' to surface. 5et plug 1580 ~ 1480 '	
	Jet plug 1300 - 100	Escelled
		OCT 10 2013
		Orlice of Oil and Gas Profecti
	ification must be given to the district on k can commence.	il and gas inspector 24 hours before permitted
Wor	k order approved by inspector Dugan	Date 10-3-13



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION /

Rotary 🔀
Spudder 🗆
Cable Tools

Storage

Quadrangle Philippi

Permit No. BAR - 413

WELL RECORD

Oil or Gas Well Gas

П

Union Drilling, Inc. Used in Drilling Company . Packers Address Box 345, Buckhannon, W. Va., 26201 Farm Frank A. McDaniel Acres 122+ Location (waters) Stewarts Run Kind of Packer Elev. 15301 181 181 Well No. (2) 184-CH District Elk County Barbour Size of 815/811 11031 11031 The surface of tract is owned in fee by Frank A. McDaniel Stewarts Run Address Philippi, W. Va. Depth set.... Mineral rights are owned by Frank A. McDaniel 5 3/16... 44881 LL1881 Stewarts Run Address Philippi, W. Va. 41/2.... Drilling commenced October 31, 1968 Perf. top Perf. bottom 4135 Drilling completed November 7, 1968 Perf. top 4420 Liners Used Date Shot...... From..... To Perf. bottom4424 Attach copy of cementing record. Inch CASING CEMENTED 12" SIZE 1125 No. Ft. 11/7/68 Date/10ths Merc. in..... Volume Riley, 10,000 - Benson, 176,000 Cu. Ft. Amount of cement used (bags) 225 bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT.....FEET.....INCHES WELL ACIDIZED (DETAILS) FEET INCHES FEET FEET INCHES FEET WELL FRACTURED (DETAILS) 11/20/68-Dowell-2Stage - 1st Stage: 41,250 Gal. Waterfrae 2nd Stage: 27,500 Gal. Waterfrac - 95,000 Lbs. Sand RESULT AFTER TREATMENT (Initial open Flow or bbls.) \ 1,500,000 ROCK PRESSURE AFTER TREATMENT 1275# HOURS 16 Fresh Water 110 Feet Salt Water Feet

Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
Lay			0	15			
and			15 54 150	54			
ed Rock &	Shale		54	152	Water @	110'	eceive
and			150	170		-	DOME
d Rock &	Shale		170	415			JC. 611
ale			415	483		LE	
nd			483	543			940
nale			543	579			0 201
and			579	671			OCT 10 201
nale			671	731			
and			731	746			_
and & Shale	9		746	858			Office of Oil and ept. of Environmen
and			858	964			Environmen
and & Shale	Э		964	1069		WVD	ept. or L.
and			1069	1103		371	
nale			1103	1138		GAC 11 12 13 14	E.
and & Shall	9		1138	1178	1	910	6
and			1178	1223	A	0 1069	
ind & Shall	ė į		1223	1294	19	DFC 1800	- 39
ed Rock			1294	1330	4	RECEIVE	D [2]
and			1330	1407	la	West Virgin	la 22)
d Rock &	Shale		1407	1585	(4)	DEC 1968 RECEIVE West Virgin Dept. of Min	les (V)
Lg Lime			1585	1689	1	Co	1000
njun Sand			1689	1783		E87871790	1000
nd & Shall	9		1783	1945		DEC 1968 RECEIVE West Virgin Dept. of Min	
and			1945	1974			
and & Shale	9 .		1974	2657			
ale			2657	2993			
nd & Shale	•		2993	3830			

Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale Riley Sand Shale Benson Sand Shale			3830 4054 4085 14105 14425	4054 4085 4405 4425 <mark>4505</mark> T	otal Depth		
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	4						
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			£ ***			Re	CEIVED T 10 2013 Hice of Oil and Gas of Environmental Protection
			,			WA Deb	of Environ

Date December 11, 19.68.

APPROVED Union Drilling, Inc. Owner

By (Title)

WW-4A Revised 6-07

4) Surface Owner(s) to be served:

1)	Date:	9/12/2013	
2)	Operator	r's Well Number	
McD	aniel #2		

3) API Well No.: 47 -

001

00413

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

/ 5) (a) Coal Operator

(a) Name	William & Edith Wentz		Name	N/A	
Address	RT 1 Box 324		Address		
	Bridgeport WV 26330				*
(b) Name			(b) Coal Ov	wner(s) with Declaration	
Address			Name	CoalQuest Development LLC	
			Address	300 Corporate Center Dr	
				Scott Depot WV 25560	
(c) Name			Name		
Address			Address		
6) Inspector	Bryan Harris		(c) Coal Le	ssee with Declaration	
Address	P.O Box 157		Name	N/A	
radress	Volga WV 26238		Address	-	
Telephone	304-553-6087			·	
relephone				-	
	TD C O M C M A T A T A T	ED ADOME	SON NAME PROPERTY.	00	
TO THE PE	RSONS NAME	ED ABOVE:	You should have rec	eived this Form and the follow	ving documents:
However, Take notic accompan Protection the Applic	you are not required to take the tent under Chapter 22-6 lying documents for a perman, with respect to the well a	te any action at all. To of the West Virginia Conit to plug and abandon at the location described been mailed by register the day of mailing or del Well Operator	Tode, the undersigned well a well with the Chief of the desired or certified mail or delivery to the Chief. Scheen Upshur let PDC Mountaineer LL	I operator proposes to file or has filed the Office of Oil and Gas, West Virginition and depicted on the attached Formelivered by hand to the person(s) name	this Notice and Application and ia Department of Environmental www-6. Copies of this Notice,
		By:	Jamie Haga	170	2013
		Its:	Agent		- 10 10
		Address	120 Genesis Blvd		are test
		122 12 12	Bridgeport WV 26330)	of Oil and Oth Prote
		Telephone	304-842-3597		Olico of Oli Bud Vallay by
Subscribed and My Commissio Oil and Gas Priv		this ISI	day of <u>Ret</u>	Notary Public	Official Seal Notary Public State of West Virginia S. Louise Edgell 120 Geness BMd, Bridgeport, WV 28330 My Commission Expires August 15, 2018
					A CONTRACTOR OF THE PROPERTY O
The Office of Oil	and Gas processes y	our personal infor	mation, such as nan	ne, address and phone number	r, as a part of our

regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our

office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WW-9 Rev. 5/08

	Page _		of	
API Number 47 -	001	120	00413	
Operator's Well N	o. McDani	el #2		

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Watershed Stewarts Run	Q	uadrangle Phillipi 7.5'	
Elevation 1530'			
Description of anticipated Pit Wast			
Will a synthetic liner be used in the	e pit? n/a		
Proposed Disposal Method For Tre	eated Pit Wastes:		
X Undergr	oplication ound Injection (UIC Permit Nun	nber See Attached)
Reuse (at API Number		
	Dispposal (Supply form WW-9 f		
Other (I	Explain		
Proposed Work For Which Pit Wil	l Re Used·		
Drilling		Swabbing	
Workov	er X	Plugging	
Other (1	Explain		
I certify that I understand	and agree to the terms and condit	tions of the GENERAL WATER POLLU	JTION PERMIT
on August 1, 2005, by the Office o	f Oil and Gas of the West Virginia	a Department of Environmental Protection	n. I understand t
on August 1, 2005, by the Office oprovisions of the permit are enforce	f Oil and Gas of the West Virginia ceable by law. Violations of any	tions of the GENERAL WATER POLLU a Department of Environmental Protection term or condition of the general permit	n. I understand t
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	1	EGEND	
Property Boundary		Diversion (4:1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	
Road = = = = =	=====	Spring	
Existing Fence — X —	- × ×	Wet Spot	
Planned Fence / _	_//_	Drain Pipe with size in inches	_ (12)
Stream	7 7 7	Waterway \longleftrightarrow	\Leftrightarrow
Open Ditch		Cross Drain	
Rock & Se Se	**	Artificial Filter Strip XXXXXXX	CX X X X X X X X X X X X X X X X X X X
North N	•	Pit: cut walls	
Buildings		Pit: compacted fill walls	
Water wells		Area for Land Application of Pit Wast	
Drill site			
Proposed Revegetation Treatm	ent: Acres Disturbed 1.5	Prevegetation pH	
Lime 3	Tons/acre or to correct to pH		
Fertilizer (10-20-20 o	r equivalent) 500 lbs/	acre (500 lbs minimum)	
0	Tons/ac	ere	
	Seed	Mixtures	
Area	T.	Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Timothy	40		
Orchard Grass	12		
Red Top Clover	5		
S 			
Attach: Drawing(s) of road, location,p	it and proposed area for land appl	ication.	
Photocopied section of involve	ed 7.5' topographic sheet.		\
			1160
Plan Approved by:	14.	128	CEIVED
	you tour	1.10	2013
Comments:			noin ess
			Office of Oil and Gas Protection
1 1	~ /	. 4 14	
Title: 0: 1 + 645	Insperior	Date: $10-3-13$	~

Disposal Well Information Sheet (Including Lat./Long., Operator, and API #)

Olisposal Well Name Ohio Oil Gathering Corp. – Bells Run Long Run Disposal Well Newell Run Disposal Well Operator: Ohio Oil Gathering Corp.	APT WELL # 34-167-2-9395 34-167-2-9658 34-167-2-9685	STATE Ohio Ohio Ohio	COUNTY Washington Washington Washington	TWP Newport Newport Newport
DISPOSAL WELL NAME BW # 4 Greens Run	APT WELL # 47-073-02523 47-073-02540	State WV WVV	COUNTY Pleasants Pleasants	TWP

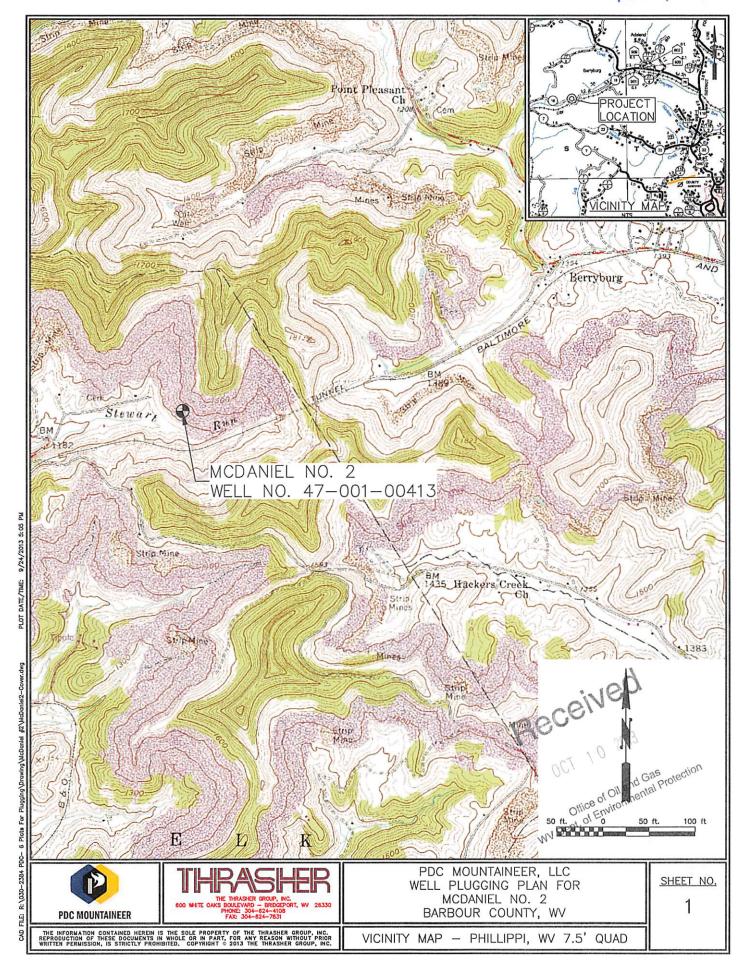
Operator: Appalachian Oil Purchasers

Coordinates
Ohio Oil Gathering Corp.-Bells Run
Long Run Disposal Well
Newell Run Disposal Well
BW# 4
Greens Run

Lat /Long 39.387 N, -81.289 W 39.391 N, -81.317 W 39.399 N, -81.273 W 39 22'20.55 N, -81 14'47.70"

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Office of Office of the Constitute of



WW-7 8-30-06

Signature

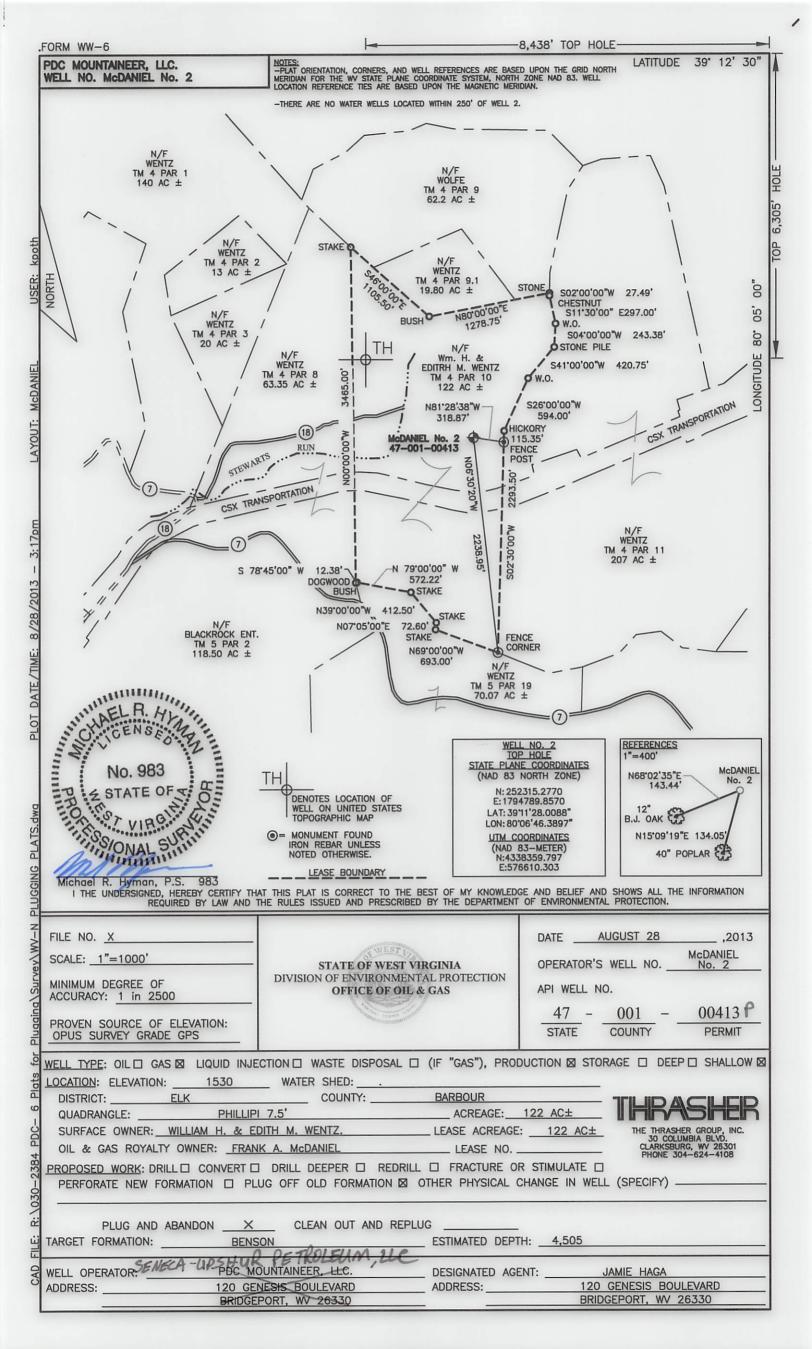


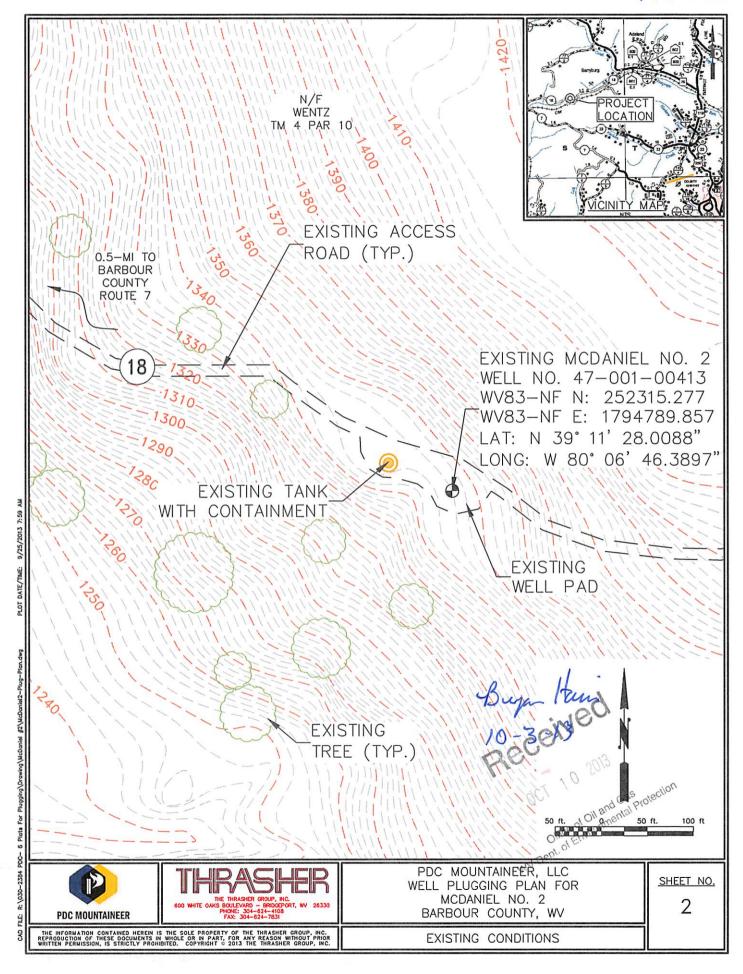
West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

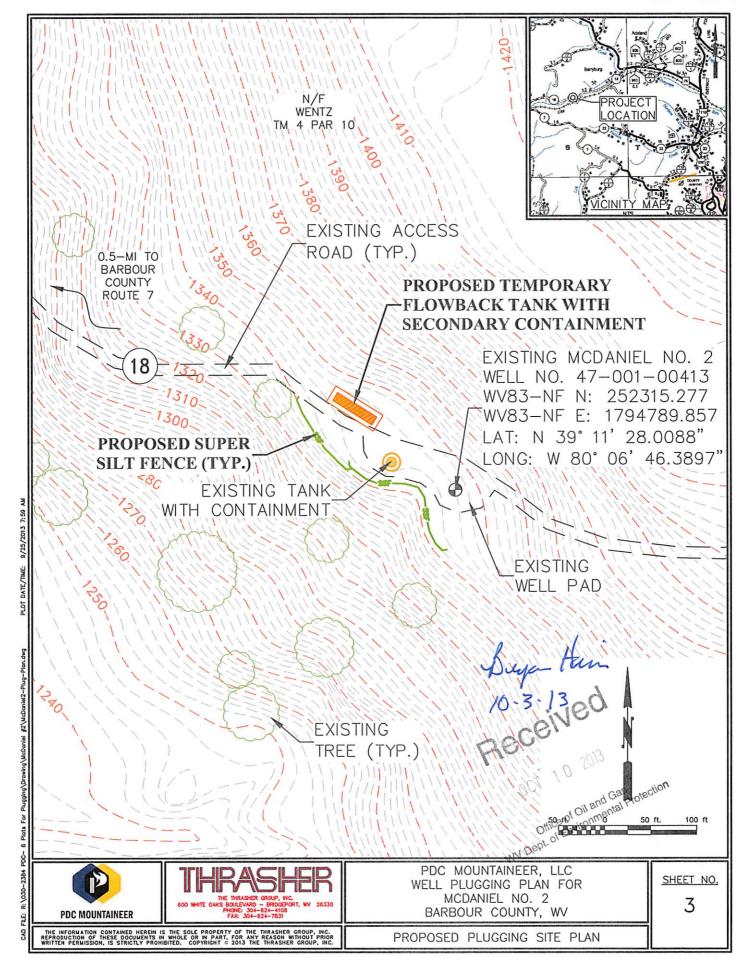
API: 47-001-00413	well no.: McDaniel 2
FARM NAME: Wentz	
RESPONSIBLE PARTY NAME: Seneca Up	shur Petroleum LLC
COUNTY: Barbour QUADRANGLE: Phillipi 7.5'	TRICT: Elk
QUADRANGLE: Phillipi 7.5'	
SURFACE OWNER: William & Edith W	entz
ROYALTY OWNER: McDaniel Heirs	
UTM GPS NORTHING: 4338359.797	
UTM GPS EASTING: 576610.303	GPS ELEVATION: 1530
The Responsible Party named above has chosen to subpreparing a new well location plat for a plugging permabove well. The Office of Oil and Gas will not accept the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coord height above mean sea level (MSL) – mete 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS × : Post Processed Differential	ait or assigned API number on the GPS coordinates that do not meet dinate Units: meters, Altitude: The second and Gas Protection of the GPS coordinates that do not meet dinate Units: meters, Altitude: The second and Gas Protection of the GPS coordinate Protection of the GPS coordinates that do not meet dinate Units: meters, Altitude: The second and GPS coordinates that do not meet dinate Units: meters, Altitude: The second and GPS coordinates that do not meet dinate Units: meters, Altitude: The second and GPS coordinates that do not meet dinate Units: meters, Altitude: The second and GPS coordinates that do not meet dinate Units: meters, Altitude: The second and GPS coordinates that do not meet dinate Units: meters, Altitude: The second and GPS coordinates that do not meet dinate Units: meters, Altitude: The second and GPS coordinates that do not meet dinate Units: meters, Altitude: The second and GPS coordinates that do not meet dinate Units: meters dinate
Mapping Grade GPS: Post Processed Difference Post Time Differential	ential Office Environ.
4. Letter size copy of the topography map of the undersigned, hereby certify this data is correct to belief and shows all the information required by law a prescribed by the Office of Oil and Gas.	the best of my knowledge and nd the regulations issued and

Title

Date







EROSION AND SEDIMENT CONTROL NOTES

SEEDING AND MULCHING

- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
- WHERE THE INITIATION OF STABILIZATION MEASURES WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS
- WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.SEEDBED PREPARATION: AREAS TO BE SEEDED SHALL BE FREE OF ROCKS AND STONES, DISKED TO A DEPTH OF 4-IN TO 6-IN, AND SMOOTHLY
- SEEDBED PREPARATION: AREAS TO BE SEEDED SHALL BE FREE OF ROCKS AND STONES, DISKED TO A DEPTH OF 4-IN TO 6-IN, AND SMOOTHLY GRADED.
- SEEDING METHOD: SEED MAY BE BROADCAST BY HYDROSEEDER OR MANUALLY AS FOLLOWS: BY HAND WITH A CYCLONE SEEDER, OR FERTILIZER SPREADER. IF A MANUAL METHOD IS USED, DIVIDE THE SEED INTO TWO LOTS AND BROADCAST THE SECOND PERPENDICULAR TO THE FIRST.
- AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS
- TEMPORARY AND PERMANENT SEED MIXTURES SHALL BE FOSTER SUPPLY PREMIUM MEADOW MIX (OR APPROVED EQUAL).
- SEED APPLICATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
- MULCH SHALL BE APPLIED AT A RATE OF 3-4 TONS PER ACRE

- LIME APPLICATION RATES

 I. WHEN A SOIL TEST REQUIRES LIME APPLICATION OF MORE THAN 4 TONS PER ACRE. THE LIME MUST BE MIXED INTO THE TOP SIX (6) INCHES OF SOIL
- MINIMUM 6 TONS PER ACRE AT 100% EFFECTIVE NEUTRALIZING VALUE (% ENV), UNLESS THE SOIL TEST DETERMINES A LESSER AMOUNT IS NEEDED. TO DETERMINE THE ACTUAL AMOUNT OF REGULAR LIME TO APPLY, DIVIDE THE AMOUNT CALLED FOR BY THE SOIL TEST BY THE % ENV FOR THE PRODUCT USED. FOR EXAMPLE, IF 6 TONS PER ACRE IS NEEDED AND THE % ENV FOR THE LIME USED IS 88%, DIVIDE 6 BY 0.88 RESULTING IN 6.8 TONS NEEDING TO BE
- FOR DOLOMITIC LIME, WHICH HAS A SIGNIFICANT AMOUNT OF MAGNESIUM IN IT, DIVIDE THE AMOUNT CALLED FOR BY THE SOIL TEST BY THE % CALCIUM CARBONATE EQUIVALENT (% CCE) LISTED FOR THE PRODUCT INSTEAD OF THE % ENV. THE % CCE MAY BE ABOVE 100% WHICH ACCOUNTS FOR THE FACT THAT MAGNESIUM HAS A GREATER EFFECT PER POUND THAN THE CALCIUM IN REGULAR LIME.
- 11. FERTILIZATION RATES
- 11.1.
- ITELEATION RATES

 IF TOP DRESSED APPLY 10-20-20 AT 600 POUNDS/ACRE

 IF INCORPORATED APPLY 10-20-20 AT 1,000 POUNDS/ACRE

 UNLESS THE SOIL TEST DETERMINES THAT THE RATE CAN BE LESS THAN THESE 11.3.

CONSTRUCTION NOTES

- CONTRACTOR SHALL INSTALL ALL REQUIRED SUPER SILT FENCE, SILT FENCE, AND/OR COMPOST FILTER SOCK BARRIERS AS SHOWN ON THE PLANS AND AS DIRECTED. ALL SUPER SILT FENCE, SILT FENCE, AND COMPOST FILTER SOCKS ARE TO BE INSTALLED PARALLEL TO THE EXISTING CONTOURS.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE WYDEP OFFICE OF OIL AND GAS "WV E&S CONTROL FIELD MANUAL"

MAINTENANCE AND INSPECTION NOTES

- CONTRACTOR SHALL CLEAN OUT SEDIMENT BEHIND THE SUPER SILT FENCE, SILT FENCE, AND/OR COMPOST FILTER SOCKS ONCE IT IS ONE THIRD OF THE HEIGHT OF THE FENCE AND/OR SOCK, THE SEDIMENT SHALL BE INCORPORATED INTO THE FILL WITHIN THE DISTURBED AREA.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED, AT MINIMUM, ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER ANY STORM EVENT GREATER THAN 0.5-INCHES PER 24-HOUR PERIOD. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY. Received

GENERAL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLAN AND ELEVATION DIMENSIONS OF THE VARIOUS WORK ITEMS ON THIS PROJEC
- 2. THE BASE MAPPING FOR THIS PROJECT IS BASED ON DIGITAL USGS OUAD MAP CONTOURS. THE DATUM IS NAD83 WEST VIRGINIA STATE PLANES, NORTH ZONE, US
- 3. THE CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UTILITIES AND FACILITIES FROM DAMAGE BY EQUIPMENT OR PERSONNEL. THE CONTRACTOR SHALL CONTACT ALL UTILITY AND FACILITY AGENCIES FOR FIELD MARKING PRIOR TO BEGINNING CONSTRUCTION. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR IT'S REPRESENTATIVE. EXISTING UTILITY INFORMATION IS THE BEST AVAILABLE AND MAY NOT BE COMPLETELY ACCURATE OR REPRESENTATIVE OF ACTUAL CONDITIONS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR OWNER IN WRITING, OF ANY EXISTING DAMAGED UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY UTILITIES OR FACILITIES DAMAGED DURING THE PROJECT BY THE CONTRACTOR OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. HAND DIGGING TO PROTECT UTILITIES FROM DAMAGE SHOULD BE ANTICIPATED.
- 4. ALL DISTURBED AREAS SHALL BE RESTORED TO A SMOOTH LINE AND GRADE WITH POSITIVE DRAINAGE. THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED
- THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND OTHER ACTIONS AS REQUIRED BY LOCAL AND STATE REGULATIONS OR REQUESTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OR MODIFYING EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IN ORDER TO PREVENT EROSION. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH "WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL", AVAILABLE AT: http://www.dep.wv.gov/oil-and- gas/Documents/Erosion%20Manual%2004.pdf
- 6. EVERY LOCATION WHERE SUPER SILT FENCE IS PROPOSED TO BE INSTALLED, THE CONTRACTOR MAY INSTALL COMPOST FILTER SOCK AS AN APPROVED EQUAL. THE COMPARABLE COMPOST FILTER SOCK SIZE SHALL BE DETERMINED IN THE FIELD (BASED UPON THE CHART PROVIDED IN DETAILS) AND SHALL BE BASED ON THE MAXIMUM SLOPE LENGTH ABOVE THE COMPOST FILTER SOCK. ADDITIONAL ROWS OF COMPOST FILTER SOCK MAY BE NECESSARY COMPARED TO THE SUPER SILT

SEQUENCE OF WORK

- INSTALL ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AND MAINTAIN FOR THE LIFE OF THE PROJECT OR UNTIL THERE IS 70% GROWTH ESTABLISHED OVER THE ENTIRE PROJECT AREA.
- INSTALL PROPOSED TEMPORARY FLOWBACK TANK WITH SECONDARY CONTAINMENT.
- BEGIN WELL PLUGGING OPERATIONS.
- 4. REMOVE UNNECESSARY EQUIPMENT
- 5. COMPLETE WELL PLUGGING
- REMOVE TEMPORARY FLOWBACK TANK.
- RESTORE SITE TO EXISTING CONDITIONS.
- SEED AND MULCH ALL DISTURBED AREAS.
- REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER 70% GROWTH HAS BEEN ESTABLISHED OVER THE ENTIRE PROJECT AREA.
- 10. COMPLETE FINAL PROJECT CLEAN UP.

CONTACTS

MISS UTILITY

http://www.wv811.com

AMBULANCE, FIRE, LAW

ENFORCEMENT

GaS Jamie.Haga@ndos PDC MOUNTAINEER, LLC.

NATIONAL RESPONSE CENTER FOR REPORTING CHEMICAL OR OIL SPILLS

> STATE EMERGENCY SPILL NOTIFICATION 1-800-642-3074

THE THRASHER GROUP, INC.

OFFICE: 304-624-4108 rmilne@thrashereng.com





PDC MOUNTAINEER, LLC WELL PLUGGING PLAN FOR MCDANIEL NO. 2 BARBOUR COUNTY, WV

SHEET NO.

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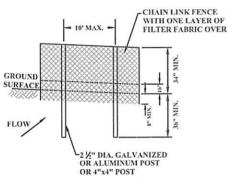
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GENERAL NOTES

NOTES:

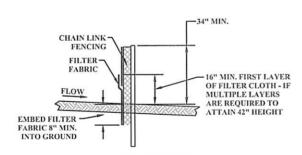
- 1. LENGTH 50' MINIMUM (30' MINIMUM FOR SINGLE RESIDENCE LOT).
- WIDTH 10' MINIMUM. SHOULD BE FLARED AT THE EXISTING ROAD TO
- GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
- STONE CRUSHER AGGREGATE (2" 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
- SURFACE WATER ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE MUST BE SIZED ACCORDING TO THE DRAINAGE AND THE
 AMOUNT OF RUN OFF TO BE CONVEYED. A 6" DIAMETER MINIMUM WILL BE
 REQUIRED. WHEN THE STABILIZED CONSTRUCTION ENTRANCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE
- LOCATION A STABILIZED CONTRACTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.

STABILIZED CONSTRUCTION ENTRANCE



PLAN VIEW

ELEVATION VIEW

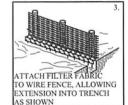


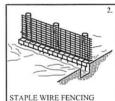
SECTION VIEW

NOTES:

- MAXIMUM 10' CENTER-TO-CENTER SPACING FOR
- FENCING SHALL BE 42" IN HEIGHT.
- CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION WIRE BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE
- FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID-SECTION.
- FILTER CLOTH AND CHAIN LINK FENCE SHALL BE EMBEDDED 8" MINIMUM INTO THE GROUND.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" MINIMUM AND FOLDED.
- BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT.
- SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.
- ANY SECTION OF FILTER FABRIC FENCE WHICH HAVE BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED.









BUILDING SUPER (REINFORCED) SILT FENCE DETAIL NOT TO SCALE



PDC MOUNTAINEER

pept. of Environmental Protection PDC MOUNTAINEER, LLC WELL PLUGGING PLAN FOR MCDANIEL NO. 2 BARBOUR COUNTY, WV

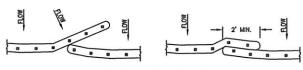
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DETAILS





END-TO-END SOCK JOINING

COMPOST SHALL MEET THE FOLLOWING STANDARDS:

ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBBLE SALT CONCENTRATION	5.0 dS MAXIMUM

COMPOST FILTER SOCK TO BE INSTALLED IN ACCORDANCE WITH FILTREXX MANUFACTURER SPECIFICATIONS, OR AN APPROVED EQUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY DIAMETER SOCK SHALL NOT EXCEED THAT SHOWN ON BELOW TABLE.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

SOCKS SHALL BE INSPECTED AS DESCRIBED IN THE MAINTENANCE AND INSPECTION NOTES IN THE EROSION AND SEDIMENT CONTROL NOTES OF THESE PLANS, DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1YR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, ALL STAKES SHALL BE REMOVED. DEGRADABLE FILTER SOCK MAY BE LEFT IN PLACE AND VEGETATED - THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT PRIOR TO SEEDING. THE MESH FROM ALL POLYPROPYLENE FILTER SOCKS SHALL BE REMOVED - THE MULCH SHALL BE SPREAD AS A SOIL SUPPLEMENT PRIOR TO SEEDING.

REPRODUCED FROM FILTREXX LOW IMPACT DESIGN MANUAL PAGE 324.

Slope Percent	Maximum Slope Length Above Sediment Control in Feet (Meters) *										
	8-IN (200-mm) Sediment Control 6.5-IN (160-mm) **	12-IN (300-mm) Sediment Control 9.5-IN (240-mm) **	18-IN (450-mm) Sediment Control 14.5-IN (360-mm) **	24-IN (600-mm) Sediment Control 19-IN (480-mm) **	32-IN (800-mm) Sediment Control 26-IN (650-mm) ***						
						2 (or less)	600 (180)	750 (225)	1000 (300)	1300 (400)	1650 (500)
						5	400 (120)	500 (150)	550 (165)	650 (200)	750 (225)
10	200 (60)	250 (75)	300 (90)	400 (120)	500 (150)						
15	140 (40)	170 (50)	200 (60)	325 (100)	450 (140)						
20	100 (30)	125 (38)	140 (42)	260 (80)	400 (120)						
25	80 (24)	100 (30)	110 (33)	200 (60)	275 (85)						
30	60 (18)	75 (23)	90 (27)	130 (40)	200 (60)						
35	60 (18)	75 (23)	80 (24)	115 (35)	150 (45)						
40	60 (18)	75 (23)	80 (24)	100 (30)	125 (38)						
45	40 (12)	50 (15)	60 (18)	80 (24)	100 (30)						
50	40 (12)	50 (15)	55 (17)	65 (20)	75 (23)						

- Based on a failure point of 36-IN (0.9-m) super silt fence (wire reinforced) at 1000-FT (303-m) of slope, watershed width equivalent to receiving length of sediment control device, 1-IN/24-HR (25-mm/24-HR) rain event.
- ** Effective height of Sediment Control after installation and with constant head from runoff as determined by

RESTRICTIONS
(1) COMPOST FILTER SOCK WILL NOT BE PLACED IN ANY AREA OF CONCENTRATED FLOWS SUCH AS SWALES, DITCHES, CHANNELS, ETC.
(2) COMPOST FILTER SOCK WILL NOT BE USED IN AREA WHERE ROCK OR ROCKY SOILS PREVENT THE FULL AND UNIFORM ANCHORING OF THE COMPOST FILTER SOCK.
(3) COMPOST FILTER SOCK WILL NOT BE PLACED ACROSS THE ENTRANCES TO PIPES OR CULVERTS AND WILL NOT BE WRAPPED AROUND THE PRINCIPAL SPILLWAY STRUCTURES OF SEDIMENT TRAPS OR BASINS.

INSTALLATION (I) COMPOST FILTER SOCK WILL BE INSTALLED WITH LITTLE, IF ANY DISTURBANCE TO THE DOWNSLOPE SIDE OF THE COMPOST FILTER SOCK.

COMPOST FILTER SOCK

NOT TO SCALE



PDC MOUNTAINEER, LLC WELL PLUGGING PLAN FOR MCDANIEL NO. 2 BARBOUR COUNTY, WV

SHEET NO. 6

Office of Oil and Gas

WV Dept. of Environmental P

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